

AMENDMENTS TO THE CLAIMS

Please amend Claims 1, 2, 14, and 15; and add new Claims 18-23.

LISTING OF CLAIMS

1. (Currently Amended) A method of addressing mobile stations in a wireless communication system comprising:

obtaining a list of mobile addresses;

using portions ~~a portion~~ of each mobile address to define respective ~~[[a]]~~ partial addresses for each mobile station that are used ~~address~~ to communicate with each mobile station; and

maintaining ~~varying~~ the length of the partial addresses at a minimum ~~length that is sufficient~~ ~~address~~ to ensure uniqueness of all of the partial ~~addresses~~ ~~address~~.

2. (Currently Amended) A method of addressing mobile stations in a wireless communication system comprising:

obtaining a list of mobile addresses; and

using portions of each mobile address to define ~~determining a~~ respective partial addresses for each mobile station that are used ~~address length and portion~~ to communicate with each mobile station;

maintaining the length of the partial addresses at a minimum length that is sufficient to ensure uniqueness of all of the partial addresses; and

sorting the list of mobile addresses by slot location so that each mobile station in a slot has a unique partial address.

3. (Original) The method of Claim 2, further comprising selecting different partial address lengths for different slots.

4. (Original) The method of Claim 1, further comprising selecting a consecutive portion of the address as the partial address.

5. (Original) The method of Claim 1, further comprising setting the partial address length to a frame length or less.

6. (Original) The method of Claim 1, further comprising selecting a partial address length to minimize the bits transmitted by the wireless communication system.

7. (Original) The method of Claim 6, further comprising addressing the mobile stations using addresses of the partial address length.

8. (Previously Presented) A wireless communication system comprising:
a plurality of mobile stations, wherein each mobile station has a unique address;

a base station which communicates with the plurality of mobile stations, the base station comparing the addresses of each mobile station to determine a partial address length at which each mobile station may be uniquely identified; wherein the partial address length may vary between slots.

9. (Original) The wireless communication system of Claim 8, wherein each of the mobile stations monitors a specific slot for its address.

10. (Previously Presented) A wireless communication system comprising:
a plurality of mobile stations, wherein each mobile station has a unique address;

a base station which communicates with the plurality of mobile stations, the base station comparing the addresses of each mobile station to determine a partial address length at which each mobile station may be uniquely identified;

each of the mobile stations monitors a specific slot for its address; and

the base station determines a partial address length at which each mobile station with a specific slot may be uniquely identified.

11. (Original) The wireless communication system of Claim 10, wherein the partial address length may vary between slots.

12. (Original) The wireless communication system of Claim 8, wherein the partial address is selected from consecutive bits of the unique address.

13. (Original) The wireless communication system of Claim 8, wherein the partial address length is a frame length or less.

14. (Currently Amended) A method of varying the address length in a wireless communication system comprising:

using portions ~~a portion~~ of ~~[[a]]~~ mobile addresses ~~address~~ to define ~~[[a]]~~ respective partial addresses for each terminal in the wireless communication system ~~address~~ which results in each terminal of the wireless communication system obtaining a unique partial address; and wherein

maintaining the length of the partial addresses at a minimum length that is sufficient to ensure the uniqueness of all of the partial addresses, wherein

the partial address length may vary between slots.

15. (Currently Amended) A method of varying the address length in a wireless communication system comprising:

using portions of mobile addresses to define respective ~~selecting a partial~~ addresses for each terminal in the wireless communication system ~~address length~~ which results in each terminal of the wireless communication system obtaining a unique partial address;

maintaining the length of the partial addresses at a minimum length that is sufficient to ensure the uniqueness of all of the partial addresses; and

dividing the addresses into groups based on the monitored slot, wherein each address in a group is unique.

16. (Original) The method of Claim 15, further comprising permitting different address lengths in each group.

17. (Original) The method of Claim 14, further comprising using consecutive bits of a terminal address to create the unique partial address.

18. (New) The method of Claim 1, further comprising defining a first partial address for a first mobile station in a first slot as a first length and defining a second partial address for a second mobile station in the first slot as a second length that is not equal to the first length.

19. (New) The method of Claim 1, further comprising defining the length of the partial addresses based on a probability of a number of misdetections by registered mobile stations in the wireless communication system.

20. (New) The wireless communication system of Claim 8, wherein a first partial address for a first mobile station in a first slot is a first length and a second partial address for a second mobile station in the first slot is a second length that is not equal to the first length.

21. (New) The wireless communication system of Claim 8, wherein the length of the partial addresses is based on a probability of a number of misdetections by registered mobile stations in the wireless communication system.

22. (New) The method of Claim 14, further comprising defining a first partial address for a first terminal in a first slot as a first length and defining a second partial address for a second terminal in the first slot as a second length that is not equal to the first length.

23. (New) The method of Claim 14, further comprising defining the length of the partial addresses based on a probability of a number of misdetections by registered terminals in the wireless communication system.